



Sri Lanka Institute of Information Technology

B.Sc. Honors Degree in Information Technology

Specialized in Software Engineering

Final Examination
Year 3, Semester 1 (2021)

SE3040 – Application Frameworks

Final Paper Report

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For Evaluations:

Marks Allocation	Marks
Implementation of User Interfaces - 24 marks	
Implementation of service endpoints. - 30 marks	
Implementation of the calculation service. - 24 marks	
Suitable technology selection (Student will be eligible for this mark if only he/she select the correct technologies for the different parts of the application). - 10 marks	
At least one-unit test for either part of the application (UI / services). - 5 marks	
Styling of the UI. - 2 marks.	
Coding standards and quality- 5 marks	

Comments:

Photograph of the Student ID



Screenshots of all user interfaces of the frontend application

Add products

localhost:1234/create-product

Apps YouTube Gmail Maps Translate Your Ali

localhost:1234 says Data inserted successfully

Easily Creat... topjobs | Vacancy B... Reading list

ABC Hardware Vehicles Products Add Product Add V...

Add Product

Product Code

Product Name

Amount

In Stock

Submit

Add vehicles

localhost:1234/create-delivery

localhost:1234 says
Data inserted successfully

OK

Add Vehical

Vehicle Type

Truck

Vehicle Owner

M.A. Perera

Description

Available

Products

White paint x Cement x Sand x

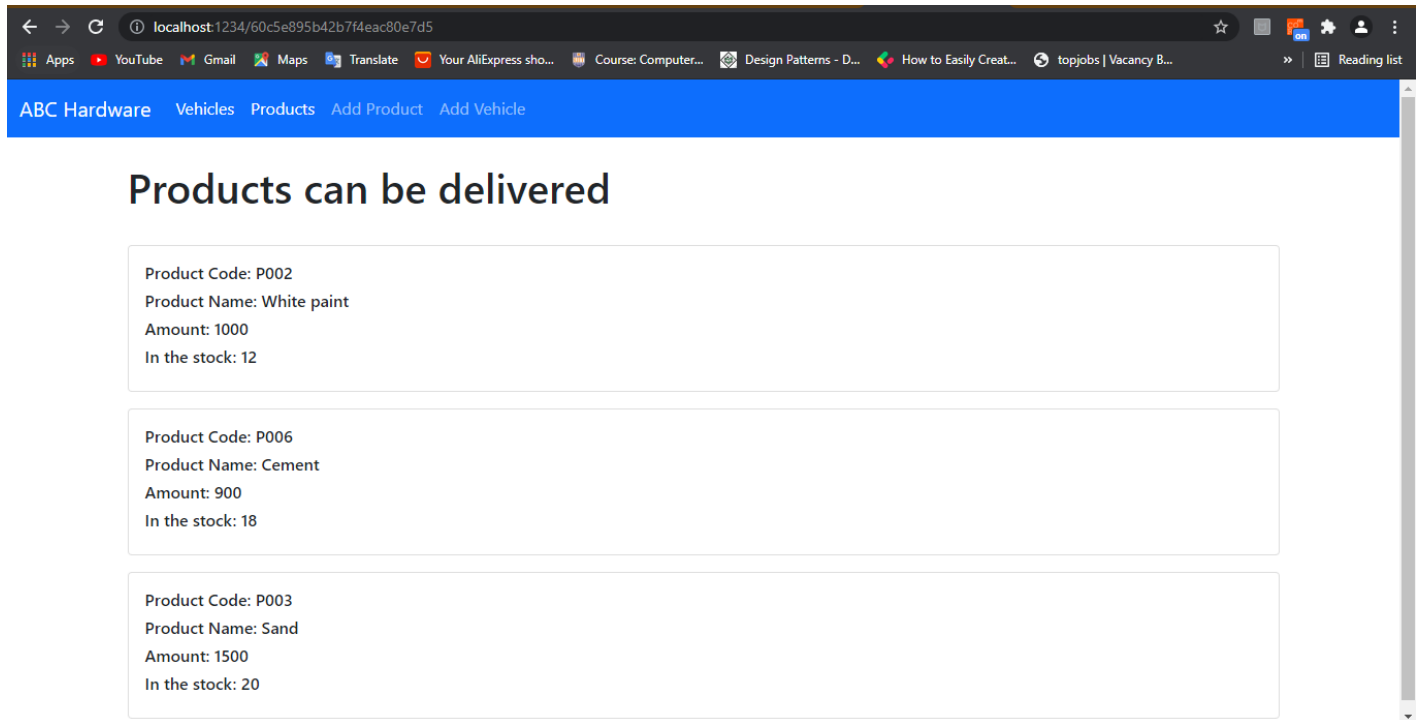
Submit

All Vehicles

localhost:1234/delivery

ABC Hardware	Vehicles	Products	Add Product	Add Vehicle
<h3>Vehicles</h3>				
Vehicle Type: Van Vehicle Owner: Saman Description: ddd				
Vehicle Type: Truck Vehicle Owner: M.A. Perera Description: Available				
Vehicle Type: Bike Vehicle Owner: Saman Description: Available				
Vehicle Type: Van Vehicle Owner: Kamal Description: Available				

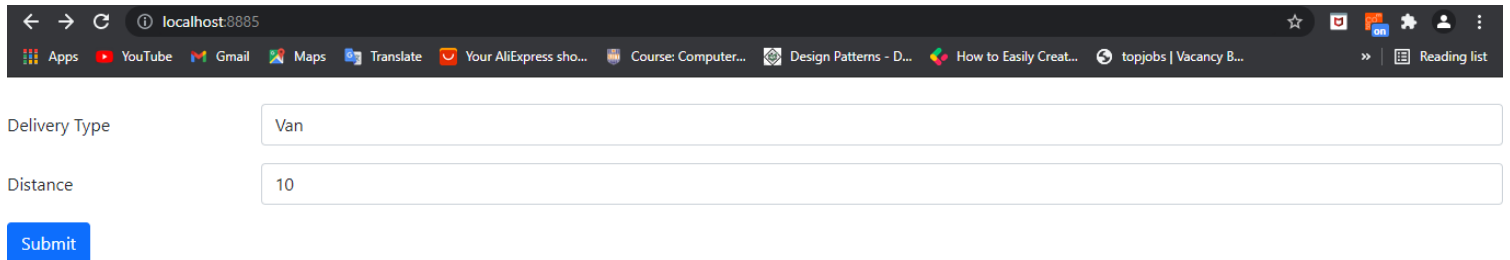
Products can be delivered by each vehicle



The screenshot shows a web browser window with the address bar displaying 'localhost:1234/60c5e895b42b7f4eac80e7d5'. The browser's address bar and tabs are visible. The website has a blue header bar with the text 'ABC Hardware' and navigation links: 'Vehicles', 'Products', 'Add Product', and 'Add Vehicle'. Below the header, the main heading is 'Products can be delivered'. There are three product entries, each in a white box with a light gray border. Each entry contains the following information: Product Code, Product Name, Amount, and In the stock.

Product Code	Product Name	Amount	In the stock
P002	White paint	1000	12
P006	Cement	900	18
P003	Sand	1500	20

Delivery Charge Calculation



The screenshot shows a web browser window with the address bar displaying 'localhost:8885'. The browser's address bar and tabs are visible. The website has a white background. There are two input fields: 'Delivery Type' and 'Distance'. The 'Delivery Type' field contains the text 'Van'. The 'Distance' field contains the text '10'. Below the input fields is a blue button labeled 'Submit'.

Delivery Type: Van

Distance: 10

Submit

Screenshots of all MongoDB collections

Products

AF-Final

Database Access

Network Access

Advanced

Feature Requests

Atlas

Realm

Charts

+ Create Database

NAMESPACES

finalexam

- products
- vehicles

finalexam.products

COLLECTION SIZE: 518B TOTAL DOCUMENTS: 5 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

FILTER

{"filter": "example"}

QUERY RESULTS 1-5 OF 5

_id: ObjectId("60c5d20952fd4d52b0ad5a64")

> vehicles: Array

code: "P001"

name: "Hammer"

amount: 890

inStock: 10

__v: 0

_id: ObjectId("60c5e6e4b42b7f4eac80e7d0")

> vehicles: Array

code: "P002"

name: "White paint"

amount: 1000

inStock: 12

__v: 0

_id: ObjectId("60c5e766b42b7f4eac80e7d1")

> vehicles: Array

code: "P003"

name: "Sand"

amount: 1500

inStock: 20

__v: 0

_id: ObjectId("60c5e77fb42b7f4eac80e7d2")

> vehicles: Array

code: "P004"

name: "Box bar"

amount: 1450

inStock: 10

Vehicles

AF-Final

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Atlas

Realm

Charts

+

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🔔

products

vehicles

FILTER { "filter": "example" }

QUERY RESULTS 1-4 OF 4

_id: ObjectId("60c5e3689dc31c4d74d5fe23")

> products: Array

type: "Van"

owner: "Saman"

description: "ddd"

__v: 0

_id: ObjectId("60c5e895b42b7f4eac80e7d5")

> products: Array

type: "Truck"

owner: "M.A. Perera"

description: "Available"

__v: 0

_id: ObjectId("60c5e895b42b7f4eac80e7d5")

> products: Array

type: "Truck"

owner: "M.A. Perera"

description: "Available"

__v: 0

_id: ObjectId("60c5e8e4b42b7f4eac80e7d6")

> products: Array

type: "Bike"

owner: "Saman"

description: "Available"

__v: 0

_id: ObjectId("60c5e8f3b42b7f4eac80e7d7")

> products: Array

type: "Van"

owner: "Kamal"

description: "Available"

__v: 0

AF-Final

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Atlas

Realm

Charts

+

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Feature Requests

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